

ABSTRACT OF THE DISCLOSURE

A device and method of use for treating a medical disorder by surgically implanting into a patient at least one sensor element capable of detecting and conveying cell signals; attaching a management unit such that a micro controller of the management unit is connected to at least one sensor element; and connecting the management unit via a lead bundle to at least one treatment device. The treatment device may be an electrical stimulation device, a magnetic stimulation device, a heat transfer device, or a medication delivery device. Responsive to signals from the one or more sensor elements, mathematical algorithms of the management unit use wavelet crosscorrelation analysis to prompt delivery of at least one treatment modality, such heat transfer, current pulses, magnetic stimulation or medication. The medical disorder may arise from the brain, central nervous system or organs and tissues outside of the central nervous system.

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